

WaterGroup®

WG AIO Chem Free Iron Filter

The AIO Chemical Free Iron filter is intended to be an effective and economical way to remove iron from water without the use of messy and dangerous chemicals or expensive pumps or an external venturi. The AIO valve creates an air bubble at the upper portion of the tank to oxidize any ferrous iron prior to being filtered by the media. It can also be used to remove low concentrations of dissolved hydrogen sulfide and manganese from water.

How does the AIO (Air Induction Oxidization) filter work?

This filter works by adding oxygen to the incoming water by passing it through a bubble of compressed air. The water is then passed through a special filter bed.

The special media not only increases the pH of the water to enhance iron removal but also acts as a physical barrier to trap iron precipitate.

As more water passes through this iron filter, the oxygen in the unit is used up, and the media gets loaded with iron. The regeneration process then begins in order to replenish the supply of oxygen, and to backwash the precipitated iron trapped in the media bed. The iron removal efficiency will be more effective with high pH water.

The filter is fitted with an inlet check valve to prevent any air from flowing backwards out of the filter tank.



Item #	Model	Media Cu Ft	Flow Rate USGPM			Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Backwash			
AIO (Air Induction Oxidizer) Chemical Free Iron Filter (Single Tank)								
2231	FILTER, WG665FAIO75	0.75	2	4	3.5	8 x 44	3/4" and 1"	110
2232	FILTER, WG665FAIO10	1.0	3	6	4	9 x 48	3/4" and 1"	145
2233	FILTER, WG665FAIO15	1.5	4	10	5	10 x 54	3/4" and 1"	250
2235	FILTER, WG665FAIO75M	0.75	2	4	3.5	8 x 44	3/4" and 1"	110
2236	FILTER, WG665FAIO10M	1.0	3	6	4	9 x 48	3/4" and 1"	145
2237	FILTER, WG665FAIO15M	1.5	4	10	5	10 x 54	3/4" and 1"	250

Bed Type	Application Parameters			
	Iron (ppm)	Manganese (ppm)	Hydrogen Sulfide (ppm)	pH Range
AIO Chem Free	0.0 - 10.0	0.0	0.0 - 1.0	7.0 - 8.5
AIO M Chem Free	0.0 - 10.0	0.0 - 1.0	0.0 - 1.0	6.5 to 6.9



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